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After removing from the soda, wash through a period of twelve or eighteen hours in half a dozen waters, the third of which may be acidulated with about ten drops of nitric acid to the ounce, which acid must be washed out. Next put in alcohol, in which sections and also leaves may be kept indefinitely, ready for dyeing.

Magenta, when used for leaves, should be of the strength of one-eighth or one-quarter of a grain to the ounce of alcohol, and purples and iodine-green two or three times as strong. These anilines are inferior to the blue in bringing out all the anatomical parts of a leaf, including the beautiful crystals so often met with. On removal from the dye, leaves should be thoroughly brushed with camel-hair pencils.

One week, instead of forty-eight hours, is frequently required to effect the decoloration of large leaves in chlorinated soda, even when they are cut into several pieces, which is advisable.

Mr. L. R. Peet, of this city, whose stainings in aniline are unsurpassed for beauty, thinks better results are attained by commencing with a weak dye, say from one-twentieth to one-twelfth of a grain, and slowly increasing the strength of the dye, at intervals of from one to three hours, until the required hue is obtained. This process certainly guards against too deep staining, and may give a finer tone to leaves under the glass.—GEO. D. BEATTY, M.D., *Baltimore, in Science-Gossip.*

NOTES.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.—The 24th meeting of the Association will be held in DETROIT, Mich., beginning on *Wednesday, August 11*, next. The circular of the Permanent Secretary states that the headquarters of the Association will be at the Russell House, on Monday and Tuesday preceding the meeting, and on Wednesday and the following days at the City Hall and Court House, where the general and sectional sessions will be held, and where the Association will be well accommodated. The citizens of Detroit have formed a large working local committee, comprising nearly two hundred of the leading citizens, with the Governor of the State as Chairman, and we are assured that everything possible will be done to make the meeting a successful one so far as the local arrangements are concerned, while the extraordinary interest taken in the last meeting by the members indicates that the scientific element of the next meeting will be

well sustained. The election of all the important officers a year in advance will not only save much time in organizing the Detroit meeting but will also secure special addresses from the presiding officers of the sections, similar to those which make so important a part of the proceedings of the British Association.

At an early date the Local Committee will issue their circular to members of the Association, giving details relating to the arrangements made for the accommodation of members while in Detroit, and such other information as may be of interest to those intending to be present at the meeting, including any facilities offered by the railroads, reduction of hotel prices, contemplated excursions, etc. In order to receive the circular of the Local Committee without fail, it is desired that all persons now planning to attend the meeting should send their addresses to Frederick Woolfenden, Esq., Secretary of the Local Committee, Detroit.

Professor F. W. Clarke of Cincinnati, appointed by the Chemical Subsection of the Hartford Meeting to notify chemists of the organization of a *Permanent Subsection of Chemistry*, requests that attention be called to the fact that the subsection is a permanent organization, and states that the general interest awakened among the chemists indicates a large gathering at Detroit of those specially interested in that department.

The attention of persons specially interested in Entomology is directed to the action taken by the Entomologists at the Hartford meeting, and to the fact that there will be a meeting of the Entomological Club of the Association at Detroit, on Tuesday, August 10 (the day preceding the meeting of the Association), at which all interested are invited to be present.

It was also suggested at the last meeting that special efforts be made to bring the Ethnologists and Archæologists together at Detroit in order to form a permanent subsection of Anthropology, and it is probable that definite action will be taken on the subject at the coming meeting.

Any person may become a member of the Association upon recommendation in writing by two members or fellows, nomination by the Standing Committee, and election by a majority of the members and fellows present in general session. Blank forms for recommendation to membership, and also copies of the general circular, will be furnished on application to F. W. Putnam, Permanent Secretary, Salem, Mass.

The following are the Officers of the Detroit Meeting:—President, J. E. Hilgard, of Washington; Vice-President, Section A, H. A. Newton, of New Haven; Vice-President, Section B, J. W. Dawson, of Montreal; Chairman of Chemical Subsection, S. W. Johnson, of New Haven; Permanent Secretary, F. W. Putnam, of Salem; General Secretary, S. H. Scudder, of Cambridge; Secretary of Section A, S. P. Langley, of Alleghany, Pa.; Secretary of Section B, N. S. Shaler, of Newport, Ky.; Treasurer, W. S. Vaux, of Philadelphia.

Standing Committee:—Past Presidents, Wm. B. Rogers, of Boston; Joseph Henry, of Washington; Benjamin Peirce, of Cambridge; James D. Dana, of New Haven; James Hall, of Albany; Alexis Caswell, of Providence; Stephen Alexander, of Princeton; Isaac Lea, of Philadelphia; F. A. P. Barnard, of New York; J. S. Newberry, of New York; B. A. Gould, of Boston; T. Sterry Hunt, of Boston; Asa Gray, of Cambridge; J. Lawrence Smith, of Louisville; Joseph Lovering, of Cambridge; the President, Vice-Presidents, Secretaries, and Treasurer of the Detroit Meeting. As Officers of the Hartford Meeting, John L. LeConte, of Philadelphia; C. S. Lyman, of New Haven; A. C. Hamlin, of Bangor; from the Association at large, Six Fellows to be elected on the first day of the meeting.

Local Committee:—Chairman, His Excellency, Governor John J. Bagley; Treasurer, William A. Butler, Esq.; Secretary, Frederick Woolfenden, Esq.; also special sub-committees on Reception, Rooms, Excursions, Entertainment, Printing, etc.

BULLETIN No 2, second series of Hayden's geological and geographical Survey of the Territories was issued May 14th by the Department of the Interior. It contains important papers as follows:—I, Monograph of the genus *Leucosticte*, Swainson; or, Gray-crowned Purple Finches, by Robert Ridgway. II, The cranial and dental characters of *Geomydæ*, by Dr. Elliott Coues. III, Relations of Insectivorous Mammals, by Theodore Gill. IV, Report on the Natural History of the United States Geological and Geographical Survey of the Territories, 1874, by Ernest Ingersoll.

This was followed on the next day by a third Bulletin, being a "Topographical and Geological Report on the San Juan Country" by A. D. Wilson, the topography illustrated by a map; with a

second topographical report, and a most entertaining narrative it is, by Franklin Rhoda, assistant topographer. This is illustrated by characteristic panoramic views of Mt. Sneffles and adjoining mountains, and of the quartzite peaks seen in looking across the great cañon of the Animas. These reports and two heliotypes of the eroded rocks of Colorado, with an explanatory note by Prof. Hayden, the Geologist in charge, render this a most timely issue, of value to miners.

As a result of the institution of the Anderson School of Natural History at Penikese Island, we are gratified to see the establishment of a similar school in Normal, Illinois.

Arrangements have been completed for a summer meeting of the association of Natural History of Illinois, for the study of botany and zoology, to be held at the museum at Normal, Illinois, commencing July 14th, and continuing until August 11th.

The following gentlemen have been engaged as instructors for the term:—Prof. B. G. Wilder, Prof. W. S. Barnard, Ph.D., Prof. T. J. Burrill, Prof. Comstock, and Prof. S. A. Forbes.

It is found necessary to limit the attendance to fifty students; but, within this limit, the class will be open to the teachers of the State. It is desirable that all names should be sent to the committee by the fifteenth of June.

A part of the expenses of the session will be defrayed by a tuition fee of ten dollars for each student; the remainder have already been provided for through the generosity of friends.

The school is to be conducted by the executive committee of the association. We hope to see similar schools forming next year, at least one for each section of the country.

THE Zoological Garden at Philadelphia is rapidly increasing its collection of American and exotic animals. Mr. Goode has recently brought from Florida, according to "The Rod and the Gun," one hundred and thirty-two specimens representing thirty-two species, distributed as follows: mammals, five species; birds, one; lizards, four; serpents, sixteen; turtles, five; amphibians, one. A number of Florida wild hogs have been engaged and negotiations are in progress for some manatees from the Indian River country.

LT. WHEELER's Progress Report upon geographical and geological explorations and surveys west of the one hundredth meridian

in 1872 has been lately issued. It is a quarto pamphlet of fifty-six pages, and is illustrated with four excellent heliotypes of the striking scenery of the cañon of the Colorado, and with maps, including a progress map of explorations and surveys conducted by the War Department. Appended are reports of the other officers and civilians connected with the survey. We shall look with interest for the appearance of the final report of the survey.

DR. GILL's "Catalogue of the Fishes of the East Coast of North America" which originally appeared as an Appendix to Prof. Baird's Report on the Fish and Fisheries of the United States, has been republished by the Smithsonian Institution.

THE importation into Finland or any portion of Russian territory of American potatoes, or sacks, cases, or any other articles, which have contained them is prohibited. We suppose on account of the fear of introducing the Colorado potato beetle.

THE "San Diego Lyceum of Natural Sciences" was organized at San Diego Cal., in 1873. The officers for 1875 are Dr. R. J. Gregg, *President*, and George N. Hitchcock, *Secretary*.

"THE Vineland Natural History Club," with about twenty-five members, was organized at Vineland, N. J., March 25, under the Presidency of Mr. D. F. Morrill.

THE "Nebraska Association for the Advancement of Science" has been established at North Platte, Nebraska. I. W. LaMunyon is President, and A. H. Church, Secretary.

DR. JOHN EDWARD GRAY, late keeper of the zoological department of the British Museum, died March 21st, at London, aged 75. He was the leading editor of the "Annals and Magazine of Natural History."

PROF. MARSH has secured for the museum of Yale College, a perfect skeleton of the mastodon lately exhumed at Otisville, Orange Co., N. Y.

PROF. F. V. HAYDEN has been elected a corresponding member of the Geological Society of London.

PROF. CYRUS THOMAS has been appointed State Entomologist Illinois.

THE Anderson School at Penikese has been discontinued for the present season, for want of funds.

THE library of Audubon was destroyed by fire April 29th at Shelbyville, Ky. It was in the house of Mrs. Lucy Bakewell, the sister-in-law of Mr. Audubon. The collection consisted of about eight hundred volumes.

BOOKS RECEIVED.

- Twenty-first Annual Report and Abstract of Proceedings of the Brighton and Sussex Natural History Society.* Brighton, 1874. pp. 122. 8vo.
- Estrada de Ferro do Recife as S. Francisco, Estudos Definitivos de una a Boa-Vista, Executados sob a direccao de J. M. da Silva Coutinho.* Rio de Janeiro, 1874. pp. 155. 4to.
- Botanical Contributions.* By Asa Gray. *Conspectus of the North American Hydrophyllaceæ.* Ex. from Proc. Am. Acad. Arts and Sciences, 1875. pp. 312-332. 8vo.
- Contributions to American Botany, V. Revision of the Genus Ceanothus, and Descriptions of New Plants with a Synopsis of the Western Species of Silene.* By Sereno Watson. From Proc. Am. Acad. Arts and Sciences. pp. 333-350. 8vo.
- Geographical Explorations and Surveys West of the One Hundredth Meridian.* Engineer Department, U. S. Army. *Systematic Catalogue of Vertebrata of the Eocene of New Mexico, Collected in 1874.* Washington, 1875. pp. 37. 8vo.
- U. S. Commission of Fish and Fisheries. Commissioner's Report, 1872-73.* Washington, 1874. pp. 910. 8vo.
- Quarterly Journal of Microscopical Science.* London, 1875. No. LVIII. pp. 209. 8vo.
- Verhandlungen des Naturforschenden Vereines.* Brunn, 1874. xii Band, 1, 2, Heft. 8vo.
- Jenaische Zeitschrift für Naturwissenschaft.* Jena, 1875. ix, Bd. N. F. ii, Bd. i. pp. 132. 8vo.
- Proceedings of the Royal Society of Edinburgh.* 1873-74, vol. viii, No. 87. pp. 207-414. 8vo.
- Archiv für Anthropologie, Zeitschrift für Naturgeschichte und Urgeschichte des Menschen.* Braunschweig, 1875. Band 7, Nos. 3, 4. pp. 473. 4to.
- Catalogue of Lower Silurian Fossils, with Descriptions of some New Species.* By U. P. James. Cincinnati, 1875. pp. 8. 8vo.
- The Canadian Antiquarian and Numismatic Journal.* Montreal, 1875. Vol. 3, No. 4. pp. 145-192. 8vo.
- The Influence of Anæsthetics on the Vaso-Motor Centres.* By Henry P. Bowditch and Charles Sedgwick Minot. Boston, 1874. pp. 8. 8vo.
- Notes on Some of the Phenomena of the Glacial Era and their Origin; in Book Notices.* By James D. Dana. pp. 311-317. 8vo.
- Memoirs of the Boston Society of Natural History.* Vol. II, Part iv, No. 1. *Prodrome of a Monograph of the Tabanids of the United States.* Part I. *The Genera Pangonia, Chrysops, Silivus, Hematopota, Diabasis.* By C. R. Osten Sacken. Boston, 1875. pp. 365-397. 4to.
- The Oologist.* Vol. 1, No. 3. May, 1875, Utica. pp. 17-24. 8vo.
- Bulletin de la Societe Geologique de France.* 3e Serie, t. III. Paris, 1875, No. 3. 8vo.
- Curious Anomaly in History of Certain Larvæ of Acronycta oblitus, Guenee, and Hints on Phylogeny of Lepidoptera.* By Thomas G. Gentry. Proc. Acad. Nat. Sci., Phil. 1875. pp. 24-54. 8vo.
- List of the Marine Algae of the United States, with Notes of New and Imperfectly Known Species.* By W. G. Farlow. Proc. Am. Acad. Arts and Sciences, 1875. pp. 351-380. 8vo.
- First Annual Report of the Geological and Agricultural Survey of Texas.* By S. B. Buckley. Houston, 1874. pp. 142. 8vo.
- The Recent Origin of Man.* By James C. Southall. Philadelphia, Lippincott & Co., 1875. pp. 606. 8vo.
- Monograph of the Genus Leucosticte, Swainson; or, Gray-Crowned Finches.* By Robert Ridgway. Washington, 1875. pp. 51-82. 8vo.
- On Dr. Koch's Evidence with regard to the Contemporaneity of Man and the Mastodon in Missouri.* By James D. Dana. From Am. Journ. Science and Arts. Vol. ix, May, 1875. pp. 335-346. 8vo.
- The Diagonal System in the Physical Features of Michigan.* By A. Winchell. Am. Journ. Science and Arts, Vol. vi. July, 1873. 8vo.
- The Climate of Michigan.* By Alexander Winchell. 8vo.
- The Isothermals of the Lake Region in North America.* By Alexander Winchell. From Proc. Am. Asso. Adv. Science, 1870. pp. 3-13. 8vo.
- Syracuse University, Annual Report to the Board of Trustees.* By Alexander Winchell, 1874. pp. 17. 8vo.
- Michigan. Being Condensed Popular Sketches of the Topography, Climate and Geology of the State.* With Charts. By Alexander Winchell, 1873. pp. 121. 8vo.
- Religious Ideas Among Barbarous Tribes.* 1. Facts. By Alexander Winchell. From Methodist Quarterly Review, Jan., 1875. pp. 5-27. 8vo.
- The Unity of the Physical World. II. Facts of Succession.* By Alexander Winchell. From Methodist Quarterly Review, Jan., 1874. 8vo.
- Revue Scientifique de la France et de l'Etranger.* No. 44, 1er mai, 1875. Quatrième année, 2e Serie.
- Descriptions of Two New Species of Birds of the Families Tanagridæ and Tyrannidæ.* By Geo. N. Lawrence. Annals Lyceum Nat. Hist., N. Y., Vol. xi, 1874. pp. 70-72. 8vo.
- Descriptions of Four New Species of Birds from Costa Rica.* By Geo. N. Lawrence. Annals Lyceum Nat. Hist., N. Y., Vol. xi, 1875. pp. 88-91. 8vo.
- The Entomologist's Monthly Magazine.* Vol. xi, London, May, 1875. 8vo.
- Report of Progress of the Mineralogical, Geological and Physical Survey of the State of Georgia.* For the period from Sept. 1, to Dec. 31, 1874. pp. 36. 8vo.
- Bulletin of the U. S. Geological and Geographical Survey of the Territories.* F. V. Hayden in charge. Second Series, Bulletin, No. 2, 3, 1875. 8vo.